

10/510148

SEQUENCE LISTING

DT04 Rec'd PCT/PTO 05 OCT 2004

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<130> 12804-008WO1

<140> PCT/US03/10536

<141> 2003-04-07

<150> US 60/370,557

<151> 2002-04-05

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gagaaccact	actctcttca	aagctgtcag	acagggacat	ttacgtctac	agagggtttt	190800
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<210> 3
<211> 251
<212> PRT
<213> Coturnix coturnix

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<400> 3
Met Val Ala Val Leu Ser Glu Leu Pro Gly Met Asp Leu Tyr Glu Asp
1      5      10      15
Tyr Lys Ser Pro Phe Asp Phe Asn Ala Gly Val Asp Arg Thr Tyr Leu
20     25     30
Tyr Leu Ser Pro Gly Ile Asn Leu Thr Pro Pro Gly Ser Pro Thr Leu
35     40     45
Thr Lys Ser Gly Leu Leu Arg Thr Asp Ser Ile Pro Glu Val Gly Glu
50     55     60
Asp Ala Ala Ala Thr Val Gly Met Ser Glu Thr Leu Ser Glu Glu Glu
65     70     75     80
Gln Asn Glu Leu Arg Lys Glu Leu Ala Lys Val Glu Glu Glu Ile Gln
85     90     95
Thr Leu Ser Gln Val Leu Ala Ala Lys Glu Lys His Leu Ala Glu Ile
100    105    110
Lys Arg Lys Leu Gly Ile Asn Ser Leu Gln Glu Leu Lys Gln Asn Ile
115    120    125
Thr Lys Ser Trp Gln Asp Val Thr Ser Thr Ala Ala Tyr Lys Lys Thr
130    135    140
Ser Glu Thr Leu Ser Gln Ala Gly Gln Lys Ala Ser Ala Ala Phe Ser
145    150    155    160
Ser Val Gly Ser Val Leu Ser Lys Lys Phe Glu Asp Val Lys Leu Gln
165    170    175
Ala Phe Ser His Ser Phe Ser Ile Arg Ser Ile Gln His Ser Ile Ser
180    185    190
Met Pro Ile Met Arg Asn Ser Pro Thr Phe Lys Ser Phe Glu Glu Lys
195    200    205
Val Glu Thr Leu Lys Ser Lys Val Gly Gly Ser Lys Pro Ala Ser Gly
210    215    220
Asp Phe Gly Glu Val Leu Asn Ser Ala Ala Asn Ala Ser Ala Thr Glu
225    230    235    240
Thr Ile Ala Glu Glu Thr Gln Glu Glu Thr His
245    250

```

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<210> 4
<211> 224
<212> PRT
<213> Mus musculus

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<400> 4
Met Glu Cys Arg Asp Met Glu Leu Ala Asp Asp Tyr Gln Ser Pro Phe
1      5      10      15
Asp Phe Asp Ser Gly Val Asn Lys Asn Tyr Leu Tyr Leu Ser Pro Ser
20     25     30
Gly Asn Thr Ser Pro Pro Gly Ser Pro Thr Gln Asn Val Gly Leu Leu
35     40     45
Lys Thr Glu Pro Val Ala Glu Glu Gly Glu Asp Ala Val Thr Met Ile

```

50		55		60
Ser Ala Pro Glu Ala Leu Thr Glu Glu Glu Gln Glu Glu Leu Arg Arg				
65		70		75
Glu Leu Thr Lys Val Glu Glu Glu Ile Gln Thr Leu Ser Gln Val Leu				80
	85		90	95
Ala Ala Lys Glu Lys His Leu Ala Glu Ile Lys Arg Lys Leu Gly Ile				
	100		105	110
Ser Ser Leu Gln Glu Phe Lys Gln Asn Ile Ala Lys Gly Trp Gln Asp				
	115		120	125
Val Thr Ala Thr Asn Ala Tyr Lys Lys Thr Ser Glu Thr Leu Ser Gln				
	130		135	140
Ala Gly Gln Lys Ala Ser Ala Ala Phe Ser Ser Val Gly Ser Val Ile				
	145		150	155
Thr Lys Lys Leu Glu Asp Val Lys Asn Ser Pro Thr Phe Lys Ser Phe				
	165		170	175
Glu Glu Lys Val Glu Asn Leu Lys Ser Lys Val Gly Gly Ala Lys Pro				
	180		185	190
Ala Gly Gly Asp Phe Gly Glu Val Leu Asn Ser Thr Ala Asn Ala Thr				
	195		200	205
Ser Thr Met Thr Thr Glu Pro Pro Pro Glu Gln Met Thr Glu Ser Pro				
	210		215	220

<210> 5
 <211> 224
 <212> PRT
 <213> Homo sapiens

<400> 5
Met Asp Cys Arg Glu Met Asp Leu Tyr Glu Asp Tyr Gln Ser Pro Phe
1 5 10 15
Asp Phe Asp Ala Gly Val Asn Lys Ser Tyr Leu Tyr Leu Ser Pro Ser
20 25 30
Gly Asn Ser Ser Pro Pro Gly Ser Pro Thr Leu Gln Lys Phe Gly Leu
35 40 45
Leu Arg Thr Asp Pro Val Pro Glu Glu Gly Glu Asp Val Ala Ala Thr
50 55 60
Ile Ser Ala Thr Glu Thr Leu Ser Glu Glu Glu Gln Glu Glu Leu Arg
65 70 75 80
Arg Glu Leu Ala Lys Val Glu Glu Glu Ile Gln Thr Leu Ser Gln Val
85 90 95
Leu Ala Ala Lys Glu Lys His Leu Ala Glu Ile Lys Arg Lys Leu Gly
100 105 110
Ile Asn Ser Leu Gln Glu Leu Lys Gln Asn Ile Ala Lys Gly Trp Gln
115 120 125
Asp Val Thr Ala Thr Ser Ala Tyr Lys Lys Thr Ser Glu Thr Leu Ser
130 135 140
Gln Ala Gly Gln Lys Ala Ser Ala Ala Phe Ser Ser Val Gly Ser Val
145 150 155 160
Ile Thr Lys Lys Leu Glu Asp Val Lys Asn Ser Pro Thr Phe Lys Ser
165 170 175
Phe Glu Glu Lys Val Glu Asn Leu Lys Ser Lys Val Gly Gly Thr Lys
180 185 190
Pro Ala Gly Gly Asp Phe Gly Glu Val Leu Asn Ser Ala Ala Asn Ala
195 200 205
Ser Ala Thr Thr Thr Glu Pro Leu Pro Glu Lys Thr Gln Glu Ser Leu
210 215 220

<210> 6
 <211> 184
 <212> PRT
 <213> Homo sapiens

<400> 6

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Met Asp Arg Gly Glu Gln Gly Leu Leu Arg Thr Asp Pro Val Pro Glu
 1          5          10          15
Glu Gly Glu Asp Val Ala Ala Thr Ile Ser Ala Thr Glu Thr Leu Ser
 20          25          30
Glu Glu Glu Gln Glu Glu Leu Arg Arg Glu Leu Ala Lys Val Glu Glu
 35          40          45
Glu Ile Gln Thr Leu Ser Gln Val Leu Ala Ala Lys Glu Lys His Leu
 50          55          60
Ala Glu Ile Lys Arg Lys Leu Gly Ile Asn Ser Leu Gln Glu Leu Lys
 65          70          75          80
Gln Asn Ile Ala Lys Gly Trp Gln Asp Val Thr Ala Thr Ser Ala Tyr
 85          90          95
Lys Lys Thr Ser Glu Thr Leu Ser Gln Ala Gly Gln Lys Ala Ser Ala
100          105          110
Ala Phe Ser Ser Val Gly Ser Val Ile Thr Lys Lys Leu Glu Asp Val
115          120          125
Lys Asn Ser Pro Thr Phe Lys Ser Phe Glu Glu Lys Val Glu Asn Leu
130          135          140
Lys Ser Lys Val Gly Gly Thr Lys Pro Ala Gly Gly Asp Phe Gly Glu
145          150          155          160
Val Leu Asn Ser Ala Ala Asn Ala Ser Ala Thr Thr Thr Glu Pro Leu
165          170          175
Pro Glu Lys Thr Gln Glu Ser Leu
180

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<210> 7

<211> 248

<212> PRT

<213> Homo sapiens

<400> 7

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Met Thr Pro Arg Glu Ser Ala Pro Gly Arg Gly Arg Ala Ala Pro Pro
 1          5          10          15
Arg Pro Thr Pro Leu Gly Val Gly Thr Ser Arg Glu Ser Pro Ala Glu
 20          25          30
Ala Arg Arg Ser Ser Ala Arg Arg Gly Gly Arg Ser Glu Pro Gly Arg
 35          40          45
Ala Ala Gly Gly Gly Ala Ala Glu Asp Thr Arg Arg Arg Ala Gly Asp
 50          55          60
Met Asp Arg Gly Glu Gln Gly Leu Leu Arg Thr Asp Pro Val Pro Glu
 65          70          75          80
Glu Gly Glu Asp Val Ala Ala Thr Ile Ser Ala Thr Glu Thr Leu Ser
 85          90          95
Glu Glu Glu Gln Glu Glu Leu Arg Arg Glu Leu Ala Lys Val Glu Glu
100          105          110
Glu Ile Gln Thr Leu Ser Gln Val Leu Ala Ala Lys Glu Lys His Leu
115          120          125
Ala Glu Ile Lys Arg Lys Leu Gly Ile Asn Ser Leu Gln Glu Leu Lys
130          135          140
Gln Asn Ile Ala Lys Gly Trp Gln Asp Val Thr Ala Thr Ser Ala Tyr
145          150          155          160
Lys Lys Thr Ser Glu Thr Leu Ser Gln Ala Gly Gln Lys Ala Ser Ala
165          170          175
Ala Phe Ser Ser Val Gly Ser Val Ile Thr Lys Lys Leu Glu Asp Val
180          185          190
Lys Asn Ser Pro Thr Phe Lys Ser Phe Glu Glu Lys Val Glu Asn Leu
195          200          205
Lys Ser Lys Val Gly Gly Thr Lys Pro Ala Gly Gly Asp Phe Gly Glu
210          215          220

```

Val Leu Asn Ser Ala Ala Asn Ala Ser Ala Thr Thr Thr Glu Pro Leu
 225 230 235 240
 Pro Glu Lys Thr Gln Glu Ser Leu
 245

<210> 8
 <211> 184
 <212> PRT
 <213> *Oryctolagus cuniculus*

<400> 8
 Met Asp Arg Gly Glu Gln Gly Leu Leu Arg Thr Asp Thr Val Pro Glu
 1 5 10 15
 Glu Ala Glu Asp Ala Ala Ala Thr Ile Ser Ala Thr Glu Thr Leu Ser
 20 25 30
 Glu Glu Glu Gln Glu Glu Leu Arg Arg Glu Leu Ala Lys Val Glu Glu
 35 40 45
 Glu Ile Gln Thr Leu Ser Gln Val Leu Ala Ala Arg Glu Lys His Leu
 50 55 60
 Ala Glu Ile Lys Arg Lys Leu Gly Ile Asn Ser Leu Gln Glu Leu Lys
 65 70 75 80
 Gln Asn Ile Ala Lys Gly Trp Gln Asp Val Thr Ala Thr Ser Ala Tyr
 85 90 95
 Lys Lys Thr Ser Glu Thr Leu Ser Gln Ala Gly Gln Lys Ala Ser Ala
 100 105 110
 Ala Phe Ser Ser Val Gly Ser Val Ile Thr Lys Lys Leu Glu Asp Val
 115 120 125
 Lys Asn Ser Pro Thr Phe Lys Ser Phe Glu Glu Lys Val Glu Asn Leu
 130 135 140
 Lys Ser Lys Val Gly Gly Thr Lys Pro Ala Gly Gly Asp Phe Gly Glu
 145 150 155 160
 Val Leu Asn Ser Thr Ala Asn Ala Ser Ala Thr Ser Gly Glu Pro Val
 165 170 175
 Pro Glu Gln Thr Gln Glu Gly Leu
 180

<210> 9
 <211> 185
 <212> PRT
 <213> *Mus musculus*

<400> 9
 Met Asp Arg Gly Glu Gln Gly Leu Leu Lys Thr Glu Pro Val Ala Glu
 1 5 10 15
 Glu Gly Glu Asp Ala Val Thr Met Leu Ser Ala Pro Glu Ala Leu Thr
 20 25 30
 Glu Glu Glu Gln Glu Glu Leu Arg Arg Glu Leu Thr Lys Val Glu Glu
 35 40 45
 Glu Ile Gln Thr Leu Ser Gln Val Leu Ala Ala Lys Glu Lys His Leu
 50 55 60
 Ala Glu Ile Lys Arg Lys Leu Gly Ile Ser Ser Leu Gln Glu Phe Lys
 65 70 75 80
 Gln Asn Ile Ala Lys Gly Trp Gln Asp Val Thr Ala Thr Asn Ala Tyr
 85 90 95
 Lys Lys Thr Ser Glu Thr Leu Ser Gln Ala Gly Gln Lys Ala Ser Ala
 100 105 110
 Ala Phe Ser Ser Val Gly Ser Val Ile Thr Lys Lys Leu Glu Asp Val
 115 120 125
 Lys Asn Ser Pro Thr Phe Lys Ser Phe Glu Glu Lys Val Glu Asn Leu
 130 135 140
 Lys Ser Lys Val Gly Gly Ala Lys Pro Ala Gly Gly Asp Phe Gly Glu

145 150 155 160
 Val Leu Asn Ser Thr Ala Asn Ala Thr Ser Thr Met Thr Thr Glu Pro
 165 170 175
 Pro Pro Glu Gln Met Thr Glu Ser Pro
 180 185

<210> 10
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 10
 cctgaactgt ttgtacctct gggccatatt gc 32

<210> 11
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 11
 caaatttctg aagagtaggt gatccgggtg gag 33

<210> 12
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 12
 tctaaagtag ggggaaccaa gcctgctggt ggtg 34

<210> 13
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 13
 actgatagat ggaatttatt aagcttttca catg 34

<210> 14
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 14
 caagttaact gagctttttc ttaatttcat tcc 33

<210> 15
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 15
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<210> 16
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 16
 agtcaataga agccggcg 18

<210> 17
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 17
 ggggatttag agggttctgt 20

<210> 18
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 18
 gcctgaactg tttgtacctc tg 22

<210> 19
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 19
 gagtaggtga tccgggtgga gatg 24